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ABSTRACT

As a service to architects and educators concerned with the analysis or programing of educational facilities, 58 articles, books, monographes, and related items published between 1958 and 1970 are listed with accompanying key terms taken from the Thesaurus of ERIC Descriptors. The reference or source of each item is given, including procurement information for 15 documents available through the ERIC system. A list of 22 additional items, with source information but without key terms, is appended. Major emphases of the documents listed include facilities for all educational levels from elementary through college and vocational schools, computer applications to facilities planning, use of the critical path method for construction control, and the distinctive features of following a systems approach in the programing of facilities construction. (JK)

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ANALYSIS & PROGRAMING
EDUCATIONAL FACILITIES

A Selected Bibliography
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ANALYSIS & PROGRAMING EDUCATIONAL FACILITIES

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ERIC CLEARINGHOUSE ON EDUCATIONAL FACILITIES

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INTRODUCTION

The following is a Selected Reference List of source publications of interest to architects and educators contemplating the analysis or programing of educational facilities. The listing has been prepared by the Educational Resources Information Center (ERIC) Clearinghouse on Educational Facilities located at the University of Wisconsin, Madison, Wisconsin, funded by the U. S. Office of Education.

Each indexed reference source is followed by an alphabetical listing of descriptors which were selected to describe the subject elements of each document. Major descriptors are the most important descriptors assigned to a given document and are identified by an asterisk. The descriptors used throughout this bibliography are part of the Thesaurus of ERIC Descriptors, which is used for indexing, storing, and retrieving documents handled by the ERIC system.

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- 1. ANALYSIS & PROGRAMING EDUCATIONAL FACILITIES..... 4**
- 2. ADDITIONAL REFERENCES..... 18**

ANALYSIS & PROGRAMING EDUCATIONAL FACILITIES

Alexander, Christopher. "Information and an Organized Process of Design," New Building Research, (Spring 1961), 115-123.

*Classification; *Communications; *Design; *Information Processing; *Information Seeking; Bibliographies; Design Needs; Methods; Models; Objectives; Personnel; Research

Alexander, Christopher. Notes on the Synthesis of Form. Cambridge, Mass.: Harvard Press, 1964. 216 pp.

*Decision Making; *Design Needs; *Methodology; *Problem Solving; Design; Mathematics; Organization; Performance Factors; Physical Environment; Planning; Problem Sets

Alexander, Christopher; And Others. "Relational Complexes in Architecture," Architectural Record, 140 (Sept. 1966), 185-190.

*Decision Making; *Design; *Facility Requirements; *Problem Sets; *Relationship; Architectural Programming; Interaction; Physical Design Needs; Psychological Design Needs; Systems Analysis

Alexander, Christopher; Sara Ishikawa; and Murray Silverstein. A Pattern Language Which Generates Multi-Service Centers. Berkeley, Calif.: Berkeley Graphic Arts, 1968. 238 pp.

*Architecture; *Building Design; *Language; *Public Facilities; *Specifications; Organization; Physical Design Needs; Problem Solving

Alexander, Christopher. "The Theory and Invention of Form," Architectural Record, 137 (April 1965), 177-186.

*Architectural Programming; *Design; *Design Needs; *Methodology; *Theories; Architecture; Decision Making; Organization; Problem Sets; Systems Analysis; Systems Approach

Antill, James M.; and Ronald W. Woodhead. Critical Path Methods in Construction Practice. Sydney, Australia: University of New South Wales, 1965. 290 pp.

*Construction Costs; *Planning; *School Construction; *Systems Analysis; *Systems Approach; School Planning

Bareither, Harlan D.; and Jerry L. Schillinger. University Space Planning, Translating the Educational Program of a University into Physical Facility Requirements. Urbana, Ill.: University of Illinois, 1968. 161 pp.

*Facility Inventory; *Higher Education; *Models; *Research Methodology; *Space Utilization; Capital Outlay; Educational Administration; Educational Finance; Educational Planning; Physical Facilities

Bloomfield, Byron C.; and Howard E. Wakefield. Basis for Design Development. Facilities Programming for a New Senior High School in the City of Green Bay. Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, EF 002 510. 1968. 46 pp.

*Architectural Programing; *Design Needs; *Facility Requirements; *School Planning; *Senior High Schools; Co-curricular Activities; Curriculum; Decision Making; Educational Objectives; Educational Philosophy; Educational Specifications; Environmental Influences; Facility Guidelines; Systems Analysis

Brewster, Sam F. Programming, Planning, and Construction of College and University Buildings. Richmond, Ind.: National Association of Physical Plant Administrators, (c/o J. H. Sweitzer), Earlham College, 1963. 43 pp.

*Architectural Programming; *Campus Planning; *College Buildings; *Higher Education; *Program Planning; Data; Educational Specifications; Maintenance; Speeches

Burke, John Emmett. Planning the Functional College Library. Commerce, Texas: John Emmett Burke, Director of Library Service, East Texas State College, 1961. 66 pp.

*Building Design; *College Libraries; *Library Equipment; *Library Facilities; *Library Planning; Architectural Elements; Campus Planning; College Buildings; Design Preferences; Facility Guidelines

Campion, David. "Design Simulation by Computer," Architectural Review, 140 (Dec. 1966), 460-462.

*Architectural Programing; *Building Design; *Computer Programs; *Computers; *Design Needs; Dining Facilities; Facility Guidelines; Facility Requirements; Mathematic Models

Clark, Stephen C.; And Others. Urban Education Systems Analysis. Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.25, HC-\$0.64, ED 013 528. 1967. 16 pp.

*Costs; *Decision Making; *Demography; *Systems Analysis; *Urban Education; Estimated Costs; School Demography

Cogswell, Arthur R. "Programming and Computer-Based Cost Analysis System," Building Research, (April/June 1969), 33-35.

*Computers; *Cost Effectiveness; *Performance Criteria; *Programing; Architecture; Decision Making; Design; Systems Approach

College and University Physical Plant Implementation, Procedural Guidelines for Building Design and Construction. Austin, Texas: Coordinating Board Texas College and University System, Sam Houston State Office Building, 1968. 93 pp.

*Architectural Programing; *Building Design; *Campus Planning; *Construction (Process); *Guidelines; Architects; Building Materials; Construction Costs; Construction Programs; Critical Path Method; Organization; Site Analysis

Comprehensive Facilities Planning Program - 1968. Madison, Wisconsin: Wisconsin Coordinating Council for Higher Education, 732 North Midvale Boulevard, 1968. 11 pp.

*College Planning; *Construction Programs; *Federal Programs; *Higher Education; *State Federal Support; Educational Finance; Educational Planning; Facility Expansion; Financial Support; School Construction

D'Amico, Louis A.; and William D. Brooks. The Spatial Campus: A Planning Scheme with Selected and Annotated Bibliography. Bloomington, Ind.: Indiana University Bookstore, Indiana University, and/or Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.50, HC-\$5.90, ED 031 881. 1968. 117 pp.

*Annotated Bibliographies; *Architectural Programing; *Campus Planning; *Facility Expansion; *Periodicals; Facility Inventory; Physical Design Needs; School Community Relationship; Spatial Relationship; Traffic Circulation; Urban Universities

Dombrow, Rodger T. and John Maughly. The Critical-Path Method of Construction Control. Nashville, Tenn.: National Council on Schoolhouse Construction, and/or Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.25, HC-\$0.55, ED 017 124. 1963. 9 pp.

*Comparative Analysis; *Management; *Networks; *Scheduling; *School Construction; Computers; Construction Costs; Systems Analysis; Time

Earthman, Glen I. Study of Space Utilization. Philadelphia, Penn.: Philadelphia School Districts, Pa., School Planning Department, and/or Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.25; HC-\$1.75, ED 029 452. 1969. 33 pp.

*Class Size; *Facility Utilization Research; *Scheduling; *School Planning; *Space Utilization; Bibliographies; Construction Programs; Facility Requirements; School Space; Time Blocks

Egbert, Robert L.; and John F. Cogswell. System Design in the Bassett High School. Technical Memorandum Series. Santa Monica, Calif: System Development Corporation, 2500 Colorado Ave., 1963. 23 pp.

*Educational Programs; *High Schools; *School Planning;
*Systems Analysis; Program Development; Program Planning

Egbert, Robert L.; and John F. Cogswell. System Design for a Continuous Progress School: Part I. Technical Memorandum Series. Santa Monica, Calif.: System Development Corporation, 2500 Colorado Ave., 1964. 76 pp.

*Educational Programs; *High Schools; *School Planning;
*Systems Analysis; Program Development; Program Planning

Evans, Benjamin H. "Architectural Programing Practices," Building Research, (April/June 1969), 12-15.

*Architectural Programing; *Decision Making; *Design Needs; *Problem Solving; *Program Design; Communication (Thought Transfer); Data Analysis; Data Collection; Evaluation; Objectives; Research

Evans, Benjamin H. Architectural Programming--State of the Art. Washington, D.C.: American Institute of Architects, and/or Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.25, HC-\$0.95, ED 018 107. 1967. 17 pp.

*Architecture; *Architectural Programing; *Building Design; *Design Needs; *Systems Analysis; Building Improvement; Communication Problems; Construction Costs; Decision Making; Specialization

Evans, Benjamin H.; and C. Herbert Wheeler, Jr. Emerging Techniques-2-Architectural Programing. Washington, D.C.: The American Institute of Architects, 1969. 68 pp.

*Architecture; *Design; *Programing; *Techniques; Bibliographies; Communications; Evaluation; Information Seeking; Information Storage; Methods; Planning; Problems; Testing

Green, Meg. Decision-Making Theory Applied to Architectural Programing. Some Research Implications. Lynchburg, Va.: Randolph-Macon Woman's College, Dept. of Sociology. 6 pp.

*Architectural Programing; *Building Design;
*Dormitories; *Research Needs; *Sociology; Decision
Making; Information Utilization; Role Theory

Guidelines to Planning Wisconsin's Public Post High School
Education Program and the Supporting Building Program.
Madison, Wisconsin: Wisconsin Coordinating Council
for Higher Education, 732 North Midvale Boulevard,
1966. 8 pp.

*Construction Programs; *Educational Planning; *Higher
Education; *Program Guides; *State Agencies; Educational
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Haviland, David S. Components for School Construction in
the Mid-Hudson Region. Progress Report 2. Troy,
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for Architectural Research, and/or Bethesda, Maryland:
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struction; *Systems Analysis; Building Design; School
Design; School Planning

Horowitz, Harold. The Program's the Thing. The New Archi-
tect-Practice. Washington, D.C.: American Institute
of Architects, 1967.

*Behavioral Sciences; *Building Design; *Criteria;
*Design Needs; *Programing; College Buildings; Con-
trolled Environment; Flexible Facilities; Information
Processing; Interviews, Master Plans; Role Theory;
School Size; Site Analysis; Spatial Relationship

Hunt, William Dudley, Jr., Ed. Comprehensive Architectural
Services--General Principles and Practice. New York:
McGraw-Hill Book Company, 330 West 42nd Street,
1965. 241 pp.

*Architects; *Architecture; *Building Design; *Guide-
lines; *Professional Services; Architectural Programing;
Fees; Site Analysis; Systems Analysis

Johnsen, Erik. Studies in Multiobjective Decision Models.
Lund, Sweden: Economic Research Center, 1968. 629 pp.

*Decision Making; *Methods; *Models; *Organizations
(Groups); Sociology; Systems Analysis; Systems Approach

Judy, Richard W.; and Jack B. Levine. A New Tool for Educational Administrators. Educational Efficiency Through Simulation Analysis. Toronto, Canada: Committee on the Financing of Higher Education, 1965. 41 pp.

*Computer Programs; *Higher Education; *Institutional Research; *Simulation; *Systems Analysis; Budgets; Enrollment Projections; Faculty Load; Space Requirements

Liebeskind, Morris. "Design and Construction of School Buildings," Proceedings, Association of School Business Officials of the United States and Canada, Annual Meeting and Educational Exhibit, (50th, San Francisco, California, October 17-22, 1964). 1965. 16 pp.

*Building Design; *Computers; *Critical Path Method; *Programing; *School Construction; Information Processing; Models; Networks; Scheduling; Systems Analysis

Mason, Thomas R. The Impact of Academic Program Structure on Instructional Space Utilization. Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.25, HC-\$0.80, ED 030 284. 1969. 14 pp.

*Facility Utilization Research; *Higher Education; *Research Methodology; *Space Utilization; *Scheduling; Campus Planning; Computer Science

Mattox, Robert F. Planning the Campus by Computer. Upper Montclair, New Jersey: Editor, 51 Upper Montclair Plaza, 1968.

*College Planning; *Computer Programs; *Facility Guidelines; *Scheduling; *Student Needs; Class Size; Cocurricular Activities; Decision Making; Display Systems; Enrollment Projections; Information Processing; Simulation

McIsaac, Donald N., Jr.; And Others. A Time-Cost Management System for Use in Educational Planning. Madison, Wisc.: University of Wisconsin, Department of Educational Administration, Information Systems, 415 W. Gilman St., 1969. 110 pp.

*Critical Path Method; *Educational Planning; *Management; *Sequential Approach; *Time; Educational Administration; Electronic Data Processing; Networks; Program Costs; Public Schools; Scheduling; Statistical Analysis

Meckley, Richard F.; Ivan E. Valentine; and Zane McCoy. A Guide to Systematic Planning for Vocational and Technical Schools. Columbus, Ohio: The Center for Vocational and Technical Education, 1900 Kenny Road, Ohio State University, 1968. 30 pp.

*Critical Path Method; *Management Systems; *Planning; *Technical Institutes; *Vocational Schools; Bibliographies; Graphs; Models; Systems Analysis; Systems Approach; Techniques

Middlebrook, William T. How to Estimate the Building Needs of a College or University. Minneapolis, Minn.: University of Minnesota Press, 1958. 169 pp.

*Architectural Programing; *Campus Planning; *Design Needs; *Facility Guidelines; *Planning; College Housing; Dining Facilities; Facility Requirements; School Planning; Site Analysis; Space Utilization

Milne, Murray A. Architectural Applications of Computer Based Network Analysis Models. New Haven, Conn.: Murray Milne, Department of Architecture, Yale University, 1967. 15 pp.

*Building Design; *Computers; *Networks; *Objectives; *System Analysis; Decision Making; Information Processing; Models

Pena, William M.; and John W. Focke. Problem Seeking. New Directions in Architectural Programming. Houston, Texas: Caudill, Rowlett & Scott, Architects, CRS Building, 1111 West Loop South, 1969. 44 pp.

*Architectural Programing; *Decision Making; *Methods;
*Techniques; Architects; Communications; Data Collec-
tion; Data Processing; Interdisciplinary Approach

Pena, William M. "Organizing for Programming," Building Research, (April/June 1969), 8-11.

*Architectural Programing; *Design; *Methodology;
*Systems Approach; Bibliographies; Communication
(Thought Transfer); Evaluation; Graphs; Information
Seeking

Physical Facilities Survey and Utilization Study. Madison,
Wisc.: Coordinating Committee for Higher Education
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*College Planning; *Educational Objectives; *Facility Guidelines; *Higher Education; *Master Plans; Ancillary Services; Financial Needs; Land Use; Physical Facilities; Program Budgeting; Program Planning; Traffic Circulation

Pinnell, Charles; and Michael Wacholder. Guidelines for Planning in Colleges and Universities. Volume 2, Management and Financial Planning. Austin, Texas: Coordinating Board, Texas College and University System, Sam Houston State Office Building, and/or Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.75, HC-\$6.50, ED 024 120. 1968. 128 pp.

*Educational Objectives; *Facility Guidelines; *Higher Education; *Management; *Program Planning; College Planning; Coordination; Financial Needs; Financial Policy; Organization; Program Budgeting

Pinnell, Charles; and Michael Wacholder. Guidelines for Planning in Colleges and Universities. Volume 3, Physical Plant Planning, Land Use, and Traffic. Austin, Texas: Coordinating Board, Texas College and University System, Sam Houston State Office Building, and/or Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.75, HC-\$7.50, ED 032 711. 1968. 148 pp.

*Campus Planning; *Higher Education; *Land Use; *Master Plans; *Traffic Circulation; Design Needs; Facility Inventory; Flexible Facilities; Pedestrian Traffic; School Expansion; Transportation; Vehicular Traffic

Pinnell, Charles; and Michael Wacholder. Guidelines for Planning in Colleges and Universities. Volume 4, Physical Plant Planning, Facilities Studies. Austin, Texas: Coordinating Board, Texas College and University System, Sam Houston State Office Building, and/or Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.50, HC-\$6.35, ED 032 712. 1968. 125 pp.

*Campus Planning; *Facility Inventory; *Facility Utilization Research; *Higher Education; *Space Utilization; College Housing; Facility Guidelines; Master Plans; Scheduling; Space Classification

Pinnell, Charles; and Michael Wacholder. Guidelines for Planning in Colleges and Universities. Volume 5, Physical Plant Planning, Utilities Studies. Austin, Texas: Coordinating Board, Texas College and University System, Sam Houston State Office Building, and/or Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.50, HC-\$6.20, ED 032 713. 1968. 124 pp.

*Campus Planning; *Colleges; *Facility Guidelines; *Universities; *Utilities; Bibliographies; Communications; Electrical Systems; Heating; Information Storage; Kinetics; Plumbing; Sanitary Facilities; Telephone Communication Systems

Richardson, Stephen. "The Value of a Program to the Architect," Building Research, (April/June 1969), 40-42.

*Architectural Programing; *Design Needs; *Facility Requirements; *Interdisciplinary Approach; *Problem Solving; Design; Planning

School Building Research-Publication No. 1008. Washington, D.C.: Building Research Institute, 1963. 200 pp.

*Architectural Research; *Campus Planning; *Design Needs; Acoustical Environment; Building Materials; Construction (Process); Elementary Schools; Secondary Schools; Windowless Classrooms

Seaton, Richard. "Research for Building Programming," Building Research, (April/June 1969), 36-39.

*Architectural Programing; *Design Needs; *Objectives; *Research; *Systems Approach; Data Collection; Methods; Standards

Staff Report on Proposed Guidelines for Research Facilities. Madison, Wisc.: Wisconsin Coordinating Council for Higher Education, 732 North Midvale Boulevard, 1966. 5 pp.

*College Planning; *Construction Programs; *Facility Expansion; *Facility Guidelines; *Higher Education; Educational Specifications; Facility Requirements

Stires, David M.; and Maurice M. Murphy. Modern Management Methods Pert and CPM. Boston, Mass.: Farnsworth Press, 1962. 294 pp.

*Critical Path Method; *Networks; *Program Evaluation; *Scheduling; Computers; Decision Making; Methods; Sequential Approach; Simulation

Systematic Methods in School Planning, Programing, and Design. A Selected Bibliography. Bethesda, Maryland: ERIC Document Reproduction Service, National Cash Register Company, MF-\$0.25, HC-\$2.40, ED 035 267. 1970. 46 pp.

*Bibliographies; *Decision Making; *Problem Solving; *School Design; *Systems Approach; Architectural Programing; Architecture; Building Design; Campus Planning; City Planning; Design; Methods; Models; Planning; Systems Engineering

Tough, Coulson; and James Sharp. "A Systems Approach to Budgeting Can Open Communication Bottlenecks," College and University Business, 44 (May 1968), 68-72.

*Budgeting; *Capital Outlay; *Educational Finance; *Higher Education; *Systems Approach; Bibliographies; Cooperative Planning; Resource Allocations; Systems Development; Team Administration

Tyrrel, Philip H. Programming the Unknown--Guidelines for the Conduct of Institutional Research. Madison, Wisc.: Denbar Educational Research Services Inc., P.O. 1148, 1962.

*Higher Education; *Institutional Research; *Management; *Program Evaluation; *Programing; Guidelines

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*College Housing; *Design Needs; *Dormitories; *Student Needs; Bibliographies; Building Design; Building Plans; Component Building Systems; Housing Industry; Housing Needs; Physical Environment; Research

The Utilization of Instructional Space at Auburn University for the Fall Quarter, 1963. Auburn, Ala.: Office of Institutional Research, Auburn, University, 1964. 16 pp.

*College Planning; *Facility Inventory; *Facility Utilization Research; *Institutional Research; *Scheduling; Classification; Data Collection; Surveys

Vickrey, Wilmont. An Architect Looks at Planning. Los Angeles, Calif.: Calif. School Facilities Council, Chancellor's Planning Office, Administration Building, University of Calif., 1966. 5 pp.

*Architectural Character; *Architectural Programing; *Building Design; *Campus Planning; *College Buildings; Architectural Elements; Architecture; Construction Programs; Facility Expansion; Planning

Working Memorandum No. 1, Pima College Educational Program
and Scheduling Variables. Boston, Mass.: Arthur
D. Little, Inc. 35 pp.

*College Planning; *Educational Programs; *Junior
Colleges; *Scheduling; *Simulation; Educational
Planning; Guidelines; Post Secondary Education

Zimmerman, Mary Ann. Estimation of Parking Demand at a
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LaFayette, Ind.: Mary Ann Zimmerman, Dept. of Civil
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*Campus Planning; *Commuting Students; *Parking
Areas; *Space Utilization; Bibliographies; Parking Controls;
Student Transportation; Traffic Circulation

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Studer, Raymond G. "On Environmental Programming," The Architectural Association Journal, (May 1966), 290-296.

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